

AMENDMENTS TO THE CLAIMS

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Amended) A process for purifying contaminated liquid comprising:

rotating at least a pair of first and second concentric shells about a common axis of rotation, each shell having an input and an output end and an inner surface facing the axis of rotation and an outer surface facing away from the axis of rotation; the shells being under vacuum;

injecting contaminated liquid at the ~~inlet~~ input end of the first shell; the contaminated liquid boiling along ~~a-the-inside~~ the inner surface of the first shell to create a purified vapor within the first shell and a remaining liquid containing contaminants on the inner surface of the first shell;

wherein the rotation of the concentric shells is at a angular velocity sufficient for any liquid on the inner surface to form a film along the inner surface due to g forces on the liquid generated by the rotation of the shells;

applying a pressure to the purified vapor to raise the pressure of the purified vapor and direct the vapor to the ~~inlet~~ input end of the second shell, the purified vapor condensing as purified liquid along the outer surface of the first shell, centrifugal force projecting the purified liquid against the inner surface of the second shell; and

collecting the purified liquid from the output end of the second shell and collecting the remaining liquid from the output end of the second shell.

20. (Newly presented) A process for purifying contaminated liquid comprising:

providing at least a pair of first and second concentric shells, the shells about a common axis, each shell having an input and an output end and an inner surface facing the axis and an outer surface facing away from the axis of rotation;

subjecting the shells to a vacuum;

rotating the concentric shells about the common axis at a angular velocity sufficient for any liquid on the inner surface to form a film along the inner surface due to g forces on the liquid generated by the rotation of the shells;

injecting contaminated liquid at the input end of the first shell; the contaminated liquid boiling along the inner surface of the first shell to cre-

ate a purified vapor within the first shell and a remaining liquid containing contaminants on the inner surface of the first shell;

applying a pressure to the purified vapor to raise the pressure of the purified vapor;

directing the vapor to the input end of the second shell, the purified vapor condensing as purified liquid along the outer surface of the first shell, whereby centrifugal force projects the purified liquid against the inner surface of the second shell; and

collecting the purified liquid from the output end of the second shell and collecting the remaining liquid from the output end of the second shell.